

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier.

1. (Original) A method of responding to an under frequency event in an electrical delivery system that provides power to an electrical appliance, the method comprising the steps of:

measuring a time period of each power line cycle of a power source;

comparing the measured time period to a trigger period,

if a cycle time period is greater than or equal to the trigger period, an under frequency counter is incremented,

if the cycle time period is less than the trigger period, the under frequency counter is decremented;

detecting an under frequency condition and initializing the line under frequency (LUF) response when the counter is incremented to a counter trigger level; and

initializing a restore response after the frequency rises above a restore valve that triggers the under frequency counter to count down until it reaches zero, thereafter indicating that the under frequency event has ceased.

2. (Original) The method of claim 1, after the step of detecting an under frequency condition further comprising the step of measuring the time period of the power line cycle while in a state of under frequency;

comparing the measured time period of the under frequency line to a restore period,
if the under frequency cycle time period is greater than or equal to the restore period, the counter is incremented,
if the under frequency cycle time period is less than the restore period, the counter is decremented.

3. (Original) The method of claim 2, further comprising the step of incrementing the under frequency counter if the under frequency counter is less than the counter trigger level.
4. (Original) The method of claim 1, wherein initializing the LUF response comprises the step of controlling the load.
5. (Original) The method of claims 1, wherein initializing the LUF response comprises the step of temporarily disconnecting the load from the power source.
6. (Original) The method of claim 1, wherein the restore response comprises the step of restoring all loads powered by the electrical delivery system.
7. (Original) The method of claim 1, wherein initializing a restore response further comprises initiating an out response when the under frequency counter reaches zero.

8. (Original) A system for responding to an under frequency event in an electrical delivery system that provides power to an electrical appliance, the system comprising:
- means for measuring a time period of each power line cycle of a power source;
 - means for comparing the measured time period to a trigger period,
 - if a cycle time period is greater than or equal to the trigger period, an under frequency counter is incremented,
 - if the cycle time period is less than the trigger period, the under frequency counter is decremented;
 - means for detecting an under frequency condition and initializing the line under frequency (LUF) response when the counter is incremented to a counter trigger level; and
 - means for initializing a restore response after the frequency rises above a restore value that triggers the under frequency counter to count down until it reaches zero, thereafter indicating that the under frequency event has ceased.
9. (Original) The system of claim 8, wherein time measuring means is also adapted to measure the under frequency power line and comparing means is also adapted to compare the measured time period and with a restore period to determine if the power line is out of an under frequency state.
10. (Original) The system of claim 8, wherein means for initializing the LUF response is adapted to control the load or temporarily disconnect the load from the power source when the counter is incremented to the counter trigger level.

11. (Original) The system of claim 8, wherein mean for initializing the restore response is adapted to initiate an out response when the under frequency counter reaches zero.

12 – 20. (Canceled).